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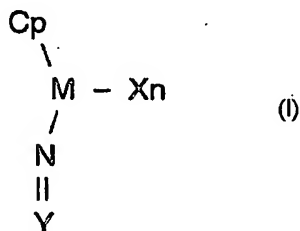
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(54) Title: **PROCESS FOR THE PRODUCTION OF A POLYMER COMPRISING MONOMERIC UNITS OF ETHYLENE, AN  $\alpha$ -OLEFIN AND A VINYL NORBORNENE**



(57) Abstract: The invention relates to a process for the preparation of a polymer comprising monomeric units of ethylene, an  $\alpha$ -olefin and a vinyl norbornene applying as a catalyst system: a. a bridged or an group 4 metal containing an unbridged catalyst having a single cyclopentadienyl ligand and a mono substituted nitrogen ligand, wherein said catalyst is defined by the formula (I); b. an aluminoxane activating compound, c. 0 - 0.20 mol per mol of the catalyst of a further activating compound, wherein Y is a substituted carbon or nitrogen atom. The invention further relates to a polymer obtainable with the process of the invention.

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